

## CLAIMS:

1. A device (10) for wireless control of a lamp (30), the device comprising:

- a control interface (4, 6), and
- a body for emitting light

wherein the control interface is connected to a mains network (1) comprising at least two

5 mains wires, and wherein at least one of the mains wires is used as a first antenna for wireless control of the lamp.

2. A device according to claim 1, wherein the control interface (4) is connected to the at least one of the mains wires (1) through a capacitive circuit (5).

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3. A device according to claim 2, wherein the lamp is a fluorescent lamp (30), and wherein the capacitive circuit (5) is capable of withstanding the ignition voltage necessary to activate the fluorescent lamp.

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4. A device according to claim 1, wherein the control interface (6) is coupled to the at least one of the mains wires (1) through an inductive coupling (7).

5. A device according to claim 1, wherein the control interface (4, 6) is capable of receiving and/or transmitting a radio frequency (RF) signal via the first antenna.

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6. A device according to claim 1, further including a user control (40) and wherein the user control comprises a second antenna (9) so that signals can be transmitted to the first antenna.

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7. A device according to claim 1, further including a user control (40) and wherein the user control comprises a second antenna (9) so that signals can be received from the first antenna.

8. Use of at least one of the mains wires (1) connected to a lamp (30) as an antenna for wireless control of the lamp.

9. A method of transmitting and/or receiving signals between a lamp (30)  
5 comprising a first antenna and a user unit comprising a second antenna (9), wherein at least a section of one of the mains wires (1) connected to the lamp is the first antenna.